

Receiving Report

Date: 14/01/31
 Supplier: TW M&A L

Batch No: M28118
 Dart P/O: 22783

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC18 Inspection ☒ N/A ☐
 Work Order 14102104 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
B-0	M6061 1.500 458 12	58 12	0	0	12	
M6061	SW-125	24	0	1	24	
M6061	5/8-125	128	12	0	108	

304 1.500 4049
 Initials of receiver (if shipment OK) 20 QC12 20
 Production/Admin: 14/01/31
 Date
 Received/Costing
 Initial

Location _____

Page 1 of 1

All amounts are calculated in domestic currency.

Receipt Dates from 1/31/2014 to 1/31/2014

employees All Currencies

Grouped by Vendor ID

[illegible]



PACKING SLIP

ORDER NO.: 60531960

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT:
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA

CN K6A 1K7

91.021 REQ. DATE: 01/31/14 CONFIRMED
SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKSBURY ON
ONTARIO CANADA

CN K6A 1K7

SALESPERSON: DONNA SMALLEY
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: PO22783

SHIP BY: 01/27/14
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
------	------------------	-------	--------

0001	42588 D6061-T6 5/8 OD X .125 WA		
QTY:	12.000 FT	WT:	2.771 PC:

2.771 PC:

1 SHP:

12 FT ML

12.000 FT

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR
PO:49285271 HT:28705495 PC: 1
MLT:UNITED STATES MFG:UNITED STATES

Expiration Date: 0/00/00

SLB/CL:200475

0002	44129 D6061-T6 1-1/2 OD X .125 WA		
QTY:	60.000 FT	WT:	38.095 PC:

38.095 PC:

5 SHP:

12 FT ML

60.000 FT

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR
PO:49291764 HT:1401654 PC: 5
MLT:GERMANY MFG:GERMANY

Expiration Date: 0/00/00

SLB/CL:49139/100

0003	36969 SMLS CD 304/L A269 7/8 X .065 WA		
QTY:	20.000 FT	WT:	11.244 PC:

11.244 PC:

1 SHP:

17/24 FT

20.000 FT

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR
PO:49296039 HT:YX1203579 PC: 1
MLT:CHINA MFG:CHINA

Expiration Date: 0/00/00

SLB/CL:7-126

0004	37056 SMLS CD 304/L A269 1 OD X .049 WA		
QTY:	20.000 FT	WT:	9.953 PC:

9.953 PC:

1 SHP:

17/24 FT

20.000 FT

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE
OF THESE PRODUCTS ARE SET FORTH ON THE
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

**PACKING SLIP**

ORDER NO.: 60531960

FROM: CRAN

PAGE 2

CUST NUMBER: 1203820 **NET WGT:**
SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA CN K6A 1K7

91.021 **REQ. DATE:** 01/31/14 **CONFIRMED**
SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY
TERMS: NET 30 DAYS
F.O.B.: SHIPPING POINT
CUST ORD NO.: PO22783

SHIP BY: 01/27/14
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION

WIDTH

LENGTH

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g **Export License:** NLR
PO:49296039 HT:YX1210680 **PC:** 1
MLT:CHINA MFG:CHINA

Expiration Date: 0/00/00

0005 37241 SMLS CD 304/L A269 1-1/4 X .120WA
QTY: 20.000 FT **WT:** 28.958 PC:

17/24 FT
1 SHP: 20.000 FT

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g **Export License:** NLR
PO:49291923 HT:YT24603 **PC:** 1
MLT:CHINA MFG:CHINA

Expiration Date: 0/00/00

SLB/CL: 2013-03-007-A

PACK INFO					
AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH
B	REDDICRATE	1.000	117.000		12.5000
B	CARTON	1.000			20.5000
		2.000	117.000		

BY: TW
RT 000-

UNLOAD TYPE: NONE SPECIFIED**DATE SHIPPED** _____**DATE FILLED** _____**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE
OF THESE PRODUCTS ARE SET FORTH ON THE
REVERSE SIDE FOR YOUR CAREFUL REVIEW.



PACKING SLIP

ORDER NO.: 60531960

FROM: CRAN

PAGE 3

CUST NUMBER: 1203820 NET WGT: 91.021 REQ. DATE: 01/31/14 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 01/27/14
TERMS: NET 30 DAYS 27 ENGLEHARD DRIVE
F.O.B.: SHIPPING POINT MONROE TWP NJ 08831
CUST ORD NO.: PO22783
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk Janice Clark Date: 1/31/14

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON THE REVERSE SIDE FOR YOUR CAREFUL REVIEW.



A COMPANY OF MUELLER INDUSTRIES

PRECISION TUBE CO.
287 WISSAHICKON AVE.
NORTH WALES PA 19454

Control No: 162188

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO.	CUST. ORD. NO.	PRECISION TUBE P/N
49285271 LINE 001	200475	24A062501250001
SOLD: TW METALS TO 760 CONSTITUTION DR. SUITE 204 EXTON, PA 19341		SHIP: TW METALS - CRANBURY TO 27 ENGLEHARD DRIVE MONROE TWP, NJ 08831 UNITED STATES

QUANTITY ORD.	DESCRIPTION	QTY. SHIPPED	DATE SHIPPED
1308 FT <i>gm</i> <i>14-02-3</i>	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082P WW-T-700/6F AM 2 ASTM-B-210-12 AMS-WW-T-700/6B LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .6250 +.0040 -.0040 ID WALL .1250 +.0060 -.0060	1428 FT	01/18/13

MECHANICAL PROPERTIES

SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS	AVERAGE GRAIN SIZE (MM.)
1	45,559	40,664	24		

DESTRUCTIVE TESTS

Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES

TW METALS

JAN 21 2013

ACCEPTABLE BY

NON-DESTRUCTIVE TESTS

CHEMICAL COMPOSITION

ALLOY: 6061									
HEAT:									
TRACEABILITY #: 28705495									
RAW MATL VENDOR: PT23938 - Kaiser Aluminum									
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Min	0.40		0.15		0.80	0.04			Rem.
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	

OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2002/95/EU).

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

By:

Art Onaitis
QA Manager

01/18/13

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6TO625W.125
 RECEIVED BY: DESJOZ
 DATE: 14-02-3
 P/O# 22783 MATERIAL CERT RECEIVED Yes.
 QUANTITY ORDERED: 120 FT. QUANTITY RECEIVED: 12 FT.
 THICKNESS ORDERED: 0.625 x 0.125W THICKNESS RECEIVED: 0.625 x 0.116
 SHEET SIZE: 12 ft. long SHEET SIZE RECEIVED: 12 FT long.

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
INCORRECT FINISH	Y <input checked="" type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/>	
INCORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	
INCORRECT MATERIAL	Y <input checked="" type="checkbox"/>	
INCORRECT THICKNESS	Y <input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	<u>ASTM B210/12 Heat #: 28705495</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	<u>M6061T6TO.625W.125</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	<u>M128118</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	5 14/02/04
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING		<u>56HRB.</u>			

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Jm</u>	BY: <u>N/A</u>
DATE: <u>14-02-3</u>	DATE: <u>14</u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Abnahmeprüfzeugnis 3.1 - DIN EN 10204:2005



Inspection Certificate 3.1 - DIN EN 10204:2005 / Certificat de Reception 3.1- DIN EN 10204:2005

Kunde: TW Metals
Client:

Zeugnisnummer: 722/13
Cert No. / No. du certificat:

175 Tubeway Drive
GA 30298 30297 Forest Park (USA

Bestellnummer: M 49291764 (P.)
Order No. / No. de commande

Produkt: Rohre nahtlos gepresst und gezogen
Product / Produit: Tubes seamless extruded and drawn

ALUnna Auftragsbest.-Nr.: 49139/100
ALUnna Conf.-No. / conf. de commande:

Spezifikation: AMS - WW - T - 700/6B; AMS 4082P; **ASTM B 210-12;**

Specification:

Werkstoff: 6061

Zustand: T 6
Temper/Etat

Alloy/Alliage:

Abmessung: 1,500 inch
Size / Dimension: 44129

x 1,250 inch

x 0,125 inch

x 12,000 feet

Jan 14-02-3

Kennzeichnung:

ALUnna-Cert No. 722/13-6061-T6-Cast No. 9132-1-WW-T-700/6F-AMS-WW-T-700/6B-AMS 4082 P-ASTM B210-12- 1.500" OD X 0.125" Wall-Heat Lot No. 1401654-ALUnna Order Conf No. 49139/100-1-CPB 300

Marking/Marquage:

Lieferung

pcs.

lbs

Country of Manufacture: Germany

Delivered Material / Matériel délivré:

96

730

1. Chemische Analyse

Chemical Analysis / analyse chimique

Other elements each max. 0,05 %, total 0,15 %

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/ min.	0,40		0,15		0,8	0,04							
Cast No. max.	0,8	0,7	0,40	0,15	1,2	0,35	0,25	0,15					
9132-1/13	0,668	0,384	0,215	0,123	0,983	0,254	0,032	0,037	0,001	0,0359	0,0074	0,0007	0,0001

Hydrogen content: 0,10

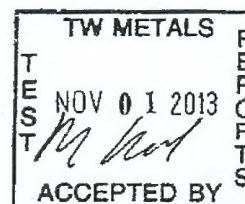
ccm/100 g Al Elements without indication < 0,01 %

country of melt manufacturer: Germany

Products are in accordance with applicable RoHS

FAR BAA: Cannot certify compliance
DFARS BAA: Complies
FAR TAA: Cannot certify compliance

Corrosion protection Brayco 300



Ergebnis der Prüfungen:

Es wird bestätigt, daß das Material geprüft wurde und den Vereinbarungen bei der Bestellannahme entspricht

Test results:

We confirm that the material has been tested and applies to the agreements made on receipt of the order

Resultats:

Nous confirmons que le matériel a été contrôlée et correspond avec les conventions faites à la réception de la commande

mergardtri



Zertifiziert nach DIN EN ISO 9001:2008 und DIN EN 9100:2003
gültig bis 2013-11-10
Zertifikat- Register- Nr.: 001959 QM08; 001959 ASH



Abnahmebeauftragter

31.05.2013

Aluminiumwerk Unna AG, Uelzener Weg 36, 59425 Unna, Germany

Abnahmeprüfzeugnis 3.1 - DIN EN 10204:2005



Inspection Certificate 3.1 - DIN EN 10204:2005 / Certificat de Reception 3.1- DIN EN 10204:2005

Kunde: TW Metals

Zeugnisnummer: 722/13

Client:

Cert No. / No. du certificat:

175 Tubeway Drive
GA 30298 30297 Forest Park (USA

Bestellnummer: M 49291764 (P.)

Order No. / No. de commande

ALUnna Auftragsbest.-Nr: 49139/100

ALUnna Order Conf.No.:

Kennzeichnung

ALUnna-Cert No.722/13-6061-T6-Cast No. 9132-1-WW-T-700/6F-AMS-WW-T-700/6B-AMS 4082 P-ASTM B210-12 - 1.500" OD X
0.125" Wall-Heat Lot No. 1401654-ALUnna Order Conf No. 49139/100-1-CPB 300

Marking/Marquage:

Lieferung

pcs.

lbs

Country of Manufacture: Germany

Delivered Material / Matériel délivré:

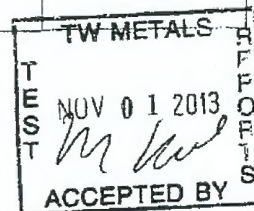
96

730

2. Mechanische Eigenschaften

Mechanical Properties / Valeurs Mécaniques

Anforderungen Requirements	tensile (Rm) ksi	yield (Rp0,2) ksi	elongation 2" %	elongation A %	Hardness HB	Heat Lot No.
	42,0	35,0	10,0			
1	44,950	35,670	17,0			1401654



Ergebnis der Prüfungen:

Es wird bestätigt, daß das Material geprüft wurde und den Vereinbarungen bei der Bestellannahme entspricht

Test results:

We confirm that the material has been tested and applies to the agreements made on receipt of the order

Resultats:

Nous confirmons que le matériel a été contrôlé et correspond avec les conventions faites à la réception de la commande

mergardtri

31.05.2013



Zertifiziert nach DIN EN ISO 9001:2008 und DIN EN 9100:2003
gültig bis 2013-11-10
Zertifikat- Register- Nr.: 001959 QM08; 001959 ASH



Abnahmebeauftragter

Aluminiumwerk Unna AG, Uelzener Weg 36, 59425 Unna, Germany

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 T1.250 W0.125
 RECEIVED BY: DESJO2
 DATE: 14-02-3
 P/O# 22783 MATERIAL CERT RECEIVED yes.
 QUANTITY ORDERED: 60 FT. QUANTITY RECEIVED: 60 FT.
 THICKNESS ORDERED: 1.250" x 0.125" THICKNESS RECEIVED: 1.250" x 0.125"
 SHEET SIZE: 12 ft long SHEET SIZE RECEIVED: 12 ft. long

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
INCORRECT FINISH	Y	<input checked="" type="checkbox"/>	
CORROSION	Y	<input checked="" type="checkbox"/>	
INCORRECT GRAIN DIRECTION	Y	<input checked="" type="checkbox"/>	
INCORRECT MATERIAL	Y	<input checked="" type="checkbox"/>	
INCORRECT THICKNESS	Y	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	N	M6061 T6 T1.250 W0.125
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	Heat # 1401654 ASTM B210 1.2
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	M128118
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	5 14/02/04
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING		28 HRB			

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>Jm</u>	BY: <u>N/A</u>	
DATE: <u>14-02-3</u>	DATE: <u>N/A</u>	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser: TW METALS-Cranbury				Certificate No.: 13-9-77					
Contract No.: TWM P.O.No.: M49296039				Date of Issue: 2013.9.12					
Commodity: <u>Stainless Steel Seamless Tubes</u>				Specifications: <u>ASTM A213-11/ASME SA213-08/ASTM A269-10 EAW</u>					
Process: <u>Cold Drawn</u>				Delivery Condition: OD Polished to 240 Grit					
Steel Grade	Heat Number	Lot Number	Dimensions	Quantity					
TP304/TP304L	YX1203-579	7-126	7/8" x 0.065" x 20'	Pieces	Quantity (ft)				
				130	2,600				
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00		
Ladle Analysis	0.019	0.66	0.035	0.001	0.34	18.34	8.10		
Product Analysis	0.022	0.62	0.039	0.001	0.34	18.22	8.59		
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (MPa)		Yield Strength (MPa)				
Requirements	≥35		Rm ≥515		Rp / 0.2% ≥205				
Test Results	63/64		620/630		260/270				
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements		HRB ≤80		22%	e=0.09				
Test Results		77/79		Passed	Passed		OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426			ASTM A262 E	End Cut	Appearance			
Test Results	Passed			OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1221604

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-11a
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) No weld repair performed
- (7) Free from mercury contamination
- (8) Billets melt and pipes/tubes manufactured in China
- (9) All tubes 100% PMI tested
- (10) All tubes 100% Eddy Current Test

CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA

By:



James Shi

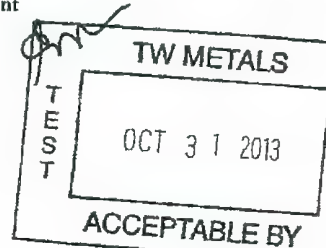
James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m304TRO.875W0.065
 RECEIVED BY: DESJOZ
 DATE: 14-02-3
 P/O# 22783
 QUANTITY ORDERED: 20 ft.
 THICKNESS ORDERED: 0.875x0.065W
 SHEET SIZE: 20 ft long

MATERIAL CERT RECEIVED yes.
 QUANTITY RECEIVED: 20 ft.
 THICKNESS RECEIVED: 0.875x0.065W
 SHEET SIZE RECEIVED: 20 ft long

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
INCORRECT FINISH	Y	N	
CORROSION	Y	N	
INCORRECT GRAIN DIRECTION	Y	N	
INCORRECT MATERIAL	Y	N	
INCORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT REF # TO LINK CERT	Y	N	Heat # <u>YX1203579</u> ASTM A213
CORRECT MATERIAL IDENTIFICATION	Y	N	<u>m304TRO.875W0.065</u>
CORRECT M# ON THE MATERIAL	Y	N	<u>m128118</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	5 14/02/04
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING		<u>26+HRA</u>			

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Jm</u>	BY: <u>N/A</u>
DATE: <u>14-02-3</u>	DATE: <u>N/A</u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury				Certificate No.: 13-9-79			
Contract No.: TWM P.O.No.: M49296039				Date of Issue.: 2013.9.12			
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-11a/ASME SA213-08/ASTM A269-10 EAW					
Process: Cold Drawn				Delivery Condition: OD Polished to 240 Grit			
Steel Grade	Heat Number	Lot Number	Dimensions		Quantity		
TP304/TP304L	YX1210-680	8-32	1" x 0.049" x 20'		Pieces	Quantity (ft)	
					120	2,400	
Chemical Composition by Weight (%)							
Element	C	Mn	P	S	Si	Cr	Ni
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00
Ladle Analysis	0.023	0.90	0.034	0.001	0.40	18.22	8.09
Product Analysis	0.025	0.88	0.034	0.001	0.37	18.28	8.17
Mechanical Properties							
Test Item	Elongation (% in 2")		Tensile Strength (MPa)		Yield Strength (MPa)		
Requirements	≥35		Rm ≥515		Rp / 0.2% ≥205		
Test Results	61/62		630/640		260/270		
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test
Requirements		HRB≤80		21%	e=0.09		
Test Results		77/79		Passed	Passed		OK
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection		
Requirements	ASTM E 426			ASTM A262 E	End Cut	Appearance	
Test Results	Passed			OK	OK	OK	

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1221604

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-11a
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) No weld repair performed
- (7) Free from mercury contamination
- (8) Billets melt and pipes/tubes manufactured in China
- (9) All tubes 100% PMI tested
- (10) All tubes 100% Eddy Current Test

**CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA**

By:



James Shi

James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory
No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

R E P O R T S	TW METALS
	NOV - 4 2013
	ACCEPTABLE BY

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m304TR1.000w.049
 RECEIVED BY: DESS02
 DATE: 14-02-3
 P/O# 22783
 QUANTITY ORDERED: 20 ft.
 THICKNESS ORDERED: 1.000 w 0.049
 SHEET SIZE: 20 ft long

MATERIAL CERT RECEIVED Yes.
 QUANTITY RECEIVED: 20 ft.
 THICKNESS RECEIVED: 1.000" x 0.049"
 SHEET SIZE RECEIVED: 20 ft long.

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
INCORRECT FINISH	Y	<input checked="" type="checkbox"/>	
CORROSION	Y	<input checked="" type="checkbox"/>	
INCORRECT GRAIN DIRECTION	Y	<input checked="" type="checkbox"/>	
INCORRECT MATERIAL	Y	<input checked="" type="checkbox"/>	
INCORRECT THICKNESS	Y	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	N	m304TR1.000w049
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	Heat YA1210680 ASTM A213
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	m30
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	m128118
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	5 14/02/04
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING		30 HRB			

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Jm</u>	BY: <u>N/A</u>
DATE: <u>14-02-3</u>	DATE: <u>N/A</u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



SHANGHAI CRYSTAL PALACE PIPE CO., LTD

CRYSTAL-PALACE

INSPECTION CERTIFICATE

ISO9001:2008 ; PED Material Certificate (No.: QAC0021058/A) DATE OF ISSUE: 2013/6/22

CUSTOMER: KASUGAI CORPORATION OF AMERICA, INC.		CERTIFICATE NO.: 2013-3-7-A-4	
P.O.NO.: M 49291923		ORDER NO.: 2013-03-007-A	
COMMODITY: <u>STAINLESS STEEL SEAMLESS TUBE</u>		GRADE: <u>ASTM A269-10/A213-11A TP304/304L</u>	
CONDITION: <u>(COLD FINISH / SOLUTION TREATED / PICKLED / PLAIN END / OD POLISHED 240 GRIT)</u>		HEAT NO.: <u>YT24603</u>	
CHEMICAL CONTENTS (WT%)			
ELEMENTS			
SPECIFICATION			
RESULTS (LADLE)			
C			
Mn			
P			
S			
Si			
Ni			
Cr			
18.0~20.0			
8.07			
18.22			
PHYSICAL PROPERTIES			
T S			
0.2%YS			
Weight (kg)			
Pieces			
Bundle No.			
Dimensions			
O.D (inch)			
W.T (inch)			
Length (feet)			
EL (%)			
FLARING TEST			
FLATTENING TEST			
HARDNESS HRB			
EDDY CURRENT TEST (100%)			
REMARKS:			
AS PER ASTM A269-10 / ASTM A213-11A / ASME SA213-10 EXCEPT AVG WALL			
IN COMPLIANCE TO NACE MR0175/ISO 15156-2003			
SOLUTION HEAT TREATMENT : 1050°C X 1.5m/min			
NO WELD REPAIR WAS PERFORMED			
FREE FROM MERCURY CONTAMINATION			
COUNTRY OF ORIGIN: CHINA			
COUNTRY OF MELT: CHINA			

I, WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT

2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

SHANGHAI CRYSTAL PALACE PIPE CO., LTD

Dingwei Guo

MANAGER OF QUALITY ASSURANCE DEPARTMENT / DING WEI-GUO

TW METALS

TEST
JUL 31 2013
ACCEPTABLE BY

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m304TR 1.250 w .125
 RECEIVED BY: DESJOZ
 DATE: 14-02-3
 P/O# 22783 MATERIAL CERT RECEIVED yes.
 QUANTITY ORDERED: 20 ft. QUANTITY RECEIVED: 20 ft
 THICKNESS ORDERED: 1.250 x 0.125 THICKNESS RECEIVED: 1.250 x 0.125
 SHEET SIZE: 20 ft long SHEET SIZE RECEIVED: 20 ft long

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
INCORRECT FINISH	Y	<input checked="" type="checkbox"/>	
CORROSION	Y	<input checked="" type="checkbox"/>	
INCORRECT GRAIN DIRECTION	Y	<input checked="" type="checkbox"/>	
INCORRECT MATERIAL	Y	<input checked="" type="checkbox"/>	
INCORRECT THICKNESS	Y	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	N	m304TR 1.250 w 0.125
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	Heat <input checked="" type="checkbox"/> 24603 ASTM A213
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	m128118
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	5 14/02/04
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING		SDHRB			

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Jm</u>	BY: <u>N/A</u>
DATE: <u>14-02-3</u>	DATE: <u>N/A</u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO22783**

Purchase Order Date 1/24/2014

PO Print Date 1/24/2014

Page Number 1 of 4

Order From :
TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA – (Free Carrier)

MIDF118

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M6061T6T1.500W.058	6061-T6 RD TUBE 1.500" x .058" WALL	1/31/2014 Yes 1/31/2014		12.00 f	\$4.40	\$52.80
MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241							
Line Total:							\$52.80
2	M6061T6T5.000W.125	6061-T6 Tube 5.00 X.125W	1/31/2014 Yes 1/31/2014		24.00 f	\$10.00	\$240.00
MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241							
Line Total:							\$240.00

Note:

1/24/2014

**Purchase Order ID PO22783**

PO Print Date 1/24/2014

Page Number 2 of 4

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Buyer	Chantal Lavoie
Customer POID	
Customer Tax #	10127-2607
Terms	Net 30
Currency	USD
FOB	FCA – (Free Carrier)

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/8 OR QQ-A-225/8 OR AMS 4080 OR
AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

Line Total: \$618.00

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/8 OR QQ-A-225/8 OR AMS 4080 OR
AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

Line Total: \$402.00

MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
AS PER ASTM A213 OR ASME SA213 OR ASTM A269

1/24/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO22783

Purchase Order Date 1/24/2014

PO Print Date 1/24/2014

Page Number 3 of 4

Order From :
TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

Line Total: \$55.60

7 M304TR1.000W.049 304 RD Tube 1.00 x .049W 1/31/2014
Yes
1/31/2014

20.00
f

\$2.55

\$51.00

MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
AS PER ASTM A213 OR ASME SA213 OR ASTM A269

Line Total: \$51.00

8 M304TR1.250W.125 304 RD Tube 1.250 x .125w 1/31/2014
Yes
1/31/2014

20.00
f

\$6.15

\$123.00

MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
AS PER ASTM A213 OR ASME SA213 OR ASTM A269

Line Total: \$123.00

9 M304TR1.500W.049 304 RD Tube 1.50 x .049W 1/31/2014
Yes
1/31/2014

20.00
f

\$3.85

\$77.00

MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
AS PER ASTM A213 OR ASME SA213 OR ASTM A269

Note:

1/24/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO22783

Purchase Order Date 1/24/2014

PO Print Date 1/24/2014

Page Number 4 of 4

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 585 768 5600

Ship To Contact

Ship To Phone

Ship Via: YRC COLLECT

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency USD

FOB FCA - (Free Carrier)

Line Total: \$77.00

PO Total: \$1,619.40

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO
PST# 6122-5207

Change Nbr: 3

Change Date: 1/24/2014